



**UNITED STATES
NUCLEAR REGULATORY COMMISSION**
REGION II
245 PEACHTREE CENTER AVENUE NE, SUITE 1200
ATLANTA, GEORGIA 30303-1257

September 2, 2014

Mr. David A. Heacock
President and Chief Nuclear Officer
Virginia Electric and Power Company
Dominion Nuclear
Innsbrook Technical Center
5000 Dominion Boulevard
Glen Allen, VA 23060-6711

**SUBJECT: MID-CYCLE LETTER FOR SURRY POWER STATION UNITS 1 AND 2 –
NRC ASSESSMENT REPORT 05000280, 281/2014006**

Dear Mr. Heacock:

On August 12, 2014, the NRC completed its mid-cycle performance review of Surry Power Station, Units 1 and 2. The NRC reviewed the most recent quarterly performance indicators (PIs) in addition to inspection results and enforcement actions from July 1, 2013, through June 30, 2014. This letter informs you of the NRC's assessment of your facility during this period and its plans for future inspections at your facility.

The NRC determined that overall, Surry Power Station, Units 1 and 2, were operated in a manner that preserved public health and safety and met all cornerstone objectives. The NRC determined that the performance at Surry Power Station, Units 1 and 2, during the most recent quarter was within the Licensee Response Column of the NRC's Reactor Oversight Process (ROP) Action Matrix because all inspection findings had very low (i.e., green) safety significance, and all PIs indicated that your performance was within the nominal, expected range (i.e., green). Therefore, the NRC plans to conduct ROP baseline inspections at your facility.

As a result of the Safety Culture Common Language Initiative, the terminology and coding of cross-cutting aspects were revised. All cross-cutting aspects identified during inspections conducted in calendar year 2014 reflect this revision to Inspection Manual Chapter (IMC) 0310. Cross-cutting aspects identified in 2013 using the 2013 terminology were converted to the latest revision in accordance with the cross-reference in IMC 0310 during the mid-cycle assessment review and evaluated for cross-cutting themes and potential substantive cross-cutting issues in accordance with IMC 0305.

The enclosed inspection plan lists the inspections scheduled through December 31, 2015. Routine inspections performed by resident inspectors are not included in the inspection plan. The inspections listed during the last nine months of the inspection plan are tentative and may be revised at the end-of-cycle performance review. The NRC provides the inspection plan to allow for the resolution of any scheduling conflicts and personnel availability issues. The NRC will contact you as soon as possible to discuss changes to the inspection plan should circumstances warrant any changes. This inspection plan does not include security related inspections, which will be sent via separate, non-publicly available correspondence

In response to the accident at Fukushima, the Commission issued Order EA-12-049, "Order Modifying Licenses with Regard to Requirements for Mitigation Strategies for Beyond-Design-Basis External Events," which requires licensees to develop, implement, and maintain guidance and strategies to maintain or restore core cooling, containment, and spent fuel pool cooling capabilities following a beyond-design-basis external event. Additionally, the Commission issued Order EA-12-051, "Order Modifying Licenses with Regard to Reliable Spent Fuel Pool Instrumentation," which requires licensees to have a reliable means of remotely monitoring wide-range Spent Fuel Pool levels to support effective prioritization of event mitigation and recovery actions in the event of a beyond-design-basis external event. The NRC is conducting audits of licensee efforts towards compliance with these Orders. This audit includes an onsite component in order for the NRC to evaluate licensee plans for complying with the Orders, as described in site-specific submittals, and to receive and review information relative to associated open items. This onsite activity will occur in the months prior to a declaration of compliance for the first unit at each site, and will aid staff in development of an ultimate Safety Evaluation for the site. The date for the onsite component at your site is being coordinated with your staff. Surry, Unit 1, has an onsite start date set for January 12, 2015. A site-specific audit plan for the visit will be provided in advance to allow sufficient time for preparations.

In accordance with 10 CFR 2.390 of the NRC's Rules of Practice, a copy of this letter will be available electronically for public inspection in the NRC Public Document Room or from the Publicly Available Records (PARS) component of NRC's Agencywide Document Access and Management System (ADAMS). ADAMS is accessible from the NRC Web site at <http://www.nrc.gov/reading-rm/adams.html> (the Public Electronic Reading Room).

Please contact me at 404-997-4511 with any questions you may have regarding this letter.

Sincerely,

/Mark Franke RA for/

Michael F. King, Chief
Reactor Projects Branch 5
Division of Reactor Projects

Docket Nos.: 50-280, 50-281
License Nos.: DPR-32, DPR-37

Enclosure: Surry Inspection/Activity Plan
(09/01/2014 – 12/31/2015)

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In response to the accident at Fukushima, the Commission issued Order EA-12-049, "Order Modifying Licenses with Regard to Requirements for Mitigation Strategies for Beyond-Design-Basis External Events," which requires licensees to develop, implement, and maintain guidance and strategies to maintain or restore core cooling, containment, and spent fuel pool cooling capabilities following a beyond-design-basis external event. Additionally, the Commission issued Order EA-12-051, "Order Modifying Licenses with Regard to Reliable Spent Fuel Pool Instrumentation," which requires licensees to have a reliable means of remotely monitoring wide-range Spent Fuel Pool levels to support effective prioritization of event mitigation and recovery actions in the event of a beyond-design-basis external event. The NRC is conducting audits of licensee efforts towards compliance with these Orders. This audit includes an onsite component in order for the NRC to evaluate licensee plans for complying with the Orders, as described in site-specific submittals, and to receive and review information relative to associated open items. This onsite activity will occur in the months prior to a declaration of compliance for the first unit at each site, and will aid staff in development of an ultimate Safety Evaluation for the site. The date for the onsite component at your site is being coordinated with your staff. Surry, Unit 1, has an onsite start date set for January 12, 2015. A site-specific audit plan for the visit will be provided in advance to allow sufficient time for preparations.

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PUBLICLY AVAILABLE NON-PUBLICLY AVAILABLE SENSITIVE NON-SENSITIVE
ADAMS: Yes ACCESSION NUMBER: _____ SUNSI REVIEW COMPLETE FORM 665 ATTACHED

| | | | | | |
|--------------|-----------|-----------|--------------|--------|--------|
| OFFICE | RII:DRP | RII:DRP | RII:DRP | | |
| SIGNATURE | SON /RA/ | BDB /RA/ | MEF /RA for/ | | |
| NAME | SNinh | BBishop | MKing | | |
| DATE | 8/27/2014 | 8/27/2014 | 9/2/2014 | | |
| E-MAIL COPY? | YES NO | YES NO | YES NO | YES NO | YES NO |

OFFICIAL RECORD COPY DOCUMENT NAME: S:\DRP\PERIODIC ASSESSMENTS & REPORTS\EOC & MID-CYCLE\2014\MID-CYCLE\ADMIN WORKING FOLDER\LETTERS\SURRY MID-CYCLE LTR 2014.DOCX

D. Heacock

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Letter to David A Heacock from Michael F. King dated September 2, 2014.

SUBJECT: MID-CYCLE LETTER FOR SURRY POWER STATION UNITS 1 AND 2 –
NRC ASSESSMENT REPORT 05000280, 281/2014006

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ROP Assessment

ROP Reports

Institute of Nuclear Power Operations (INPO)

| Unit Number | Planned Dates Start | Planned Dates End | Inspection Activity | Title | No. of Staff on Site |
|-------------|---------------------|-------------------|---------------------|---|----------------------|
| | | | CDBI | - COMPONENT DESIGN BASES INSPECTION | 7 |
| 1, 2 | 09/08/2014 | 09/12/2014 | IP 7111121 | Component Design Bases Inspection | |
| 1, 2 | 09/22/2014 | 09/26/2014 | IP 7111121 | Component Design Bases Inspection | |
| | | | OL RQ | - REQUAL INSP | 2 |
| 1, 2 | 01/19/2015 | 01/23/2015 | IP 7111111B | Licensed Operator Requalification Program | |
| | | | EP | - EP EXERCISE | 5 |
| 1, 2 | 02/09/2015 | 02/13/2015 | IP 7111404 | Emergency Action Level and Emergency Plan Changes | |
| 1, 2 | 02/09/2015 | 02/13/2015 | IP 7111407 | Exercise Evaluation - Hostile Action (HA) Event | |
| 1, 2 | 02/09/2015 | 02/13/2015 | IP 71151 | Performance Indicator Verification | |
| | | | TFPI | - TRIENNIEL FIRE PROTECTION INSPECTION | 4 |
| 1, 2 | 03/02/2015 | 03/06/2015 | IP 7111105T | Fire Protection [Triennial] | |
| 1, 2 | 03/16/2015 | 03/20/2015 | IP 7111105T | Fire Protection [Triennial] | |
| | | | ISI | - UNIT 1 IN-SERVICE INSPECTION | 1 |
| 1 | 04/27/2015 | 05/01/2015 | IP 7111108P | Inservice Inspection Activities - PWR | |
| | | | SGISI | - UNIT 1 SG IN-SERVICE INSPECTION | 1 |
| 1 | 05/04/2015 | 05/08/2015 | IP 7111108P | Inservice Inspection Activities - PWR | |
| | | | RP | - RP PUBLIC RAD SAFETY BASELINE | 2 |
| 1, 2 | 05/18/2015 | 05/22/2015 | IP 71124.06 | Radioactive Gaseous and Liquid Effluent Treatment | |
| 1, 2 | 05/18/2015 | 05/22/2015 | IP 71124.07 | Radiological Environmental Monitoring Program | |
| 1, 2 | 05/18/2015 | 05/22/2015 | IP 71151 | Performance Indicator Verification | |
| | | | PI&R | - PROBLEM IDENTIFICATION AND RESOLUTION | 5 |
| 1, 2 | 07/13/2015 | 07/17/2015 | IP 71152B | Problem Identification and Resolution | |
| 1, 2 | 07/27/2015 | 07/31/2015 | IP 71152B | Problem Identification and Resolution | |
| | | | MODS | - PLANT MODIFICATIONS INSPECTION | 5 |
| 1, 2 | 09/14/2015 | 09/18/2015 | IP 711117T | Evaluations of Changes, Tests, and Experiments and Permanent Plant Modifications | |
| 1, 2 | 09/28/2015 | 10/02/2015 | IP 711117T | Evaluations of Changes, Tests, and Experiments and Permanent Plant Modifications | |
| | | | ISI | - UNIT 2 IN-SERVICE INSPECTION | 1 |
| 2 | 10/19/2015 | 10/23/2015 | IP 7111108P | Inservice Inspection Activities - PWR | |
| | | | RP | - RP OCCUPATIONAL BASELINE | 2 |
| 1, 2 | 10/19/2015 | 10/23/2015 | IP 71124.01 | Radiological Hazard Assessment and Exposure Controls | |
| 1, 2 | 10/19/2015 | 10/23/2015 | IP 71124.08 | Radioactive Solid Waste Processing and Radioactive Material Handling, Storage, and Transportation | |
| 1, 2 | 10/19/2015 | 10/23/2015 | IP 71151 | Performance Indicator Verification | |

This report does not include INPO and OUTAGE activities.
 This report shows only on-site and announced inspection procedures.

Surry

Inspection / Activity Plan

09/01/2014 - 12/31/2015

| Unit Number | Planned Dates Start End | Inspection Activity | Title | No. of Staff on Site |
|-------------|----------------------------|---------------------|--|-------------------------|
| 2 | 10/26/2015 10/30/2015 | SGISI IP 7111108P | - UNIT 2 SG IN-SERVICE INSPECTION Inservice Inspection Activities - PWR | 1 |

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 This report shows only on-site and announced inspection procedures.

Enclosure